









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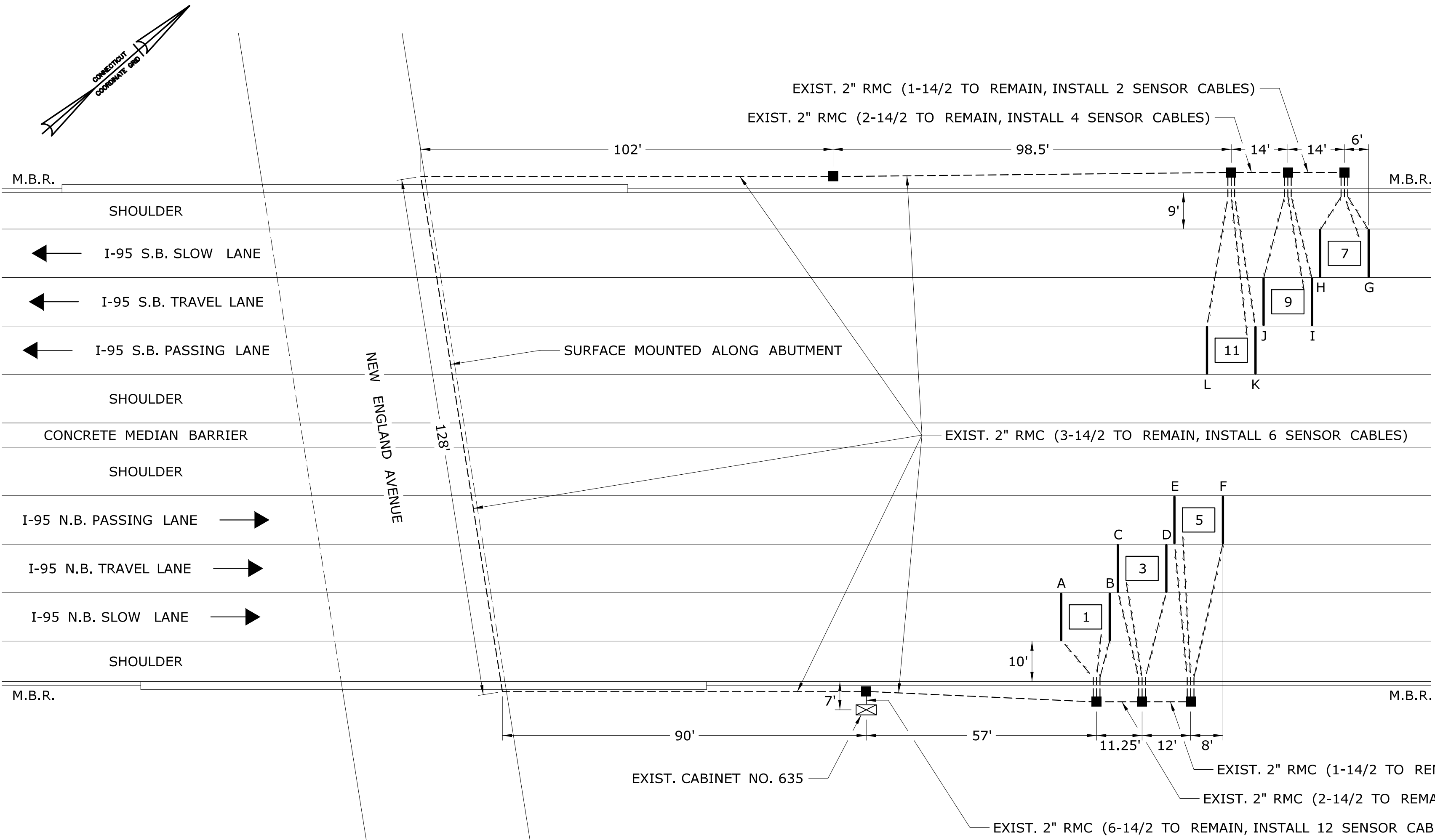
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TRANSPORTATION PRINCIPAL ENGINEER


				THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: ZJR CHECKED BY: EWM	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: APPROVED BY: 	PROJECT TITLE: PAVEMENT PRESERVATION ON INTERSTATE 95	TOWN: BRIDGEPORT, FAIRFIELD DRAWING TITLE: INDEX OF DRAWINGS	PROJECT NO. 50-219 DRAWING NO. TMS-01 SHEET NO. 07.01
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 12/18/2015	Filename: ...\\FD_MSH-IDX-0050-0219-TMS-01.dgn					

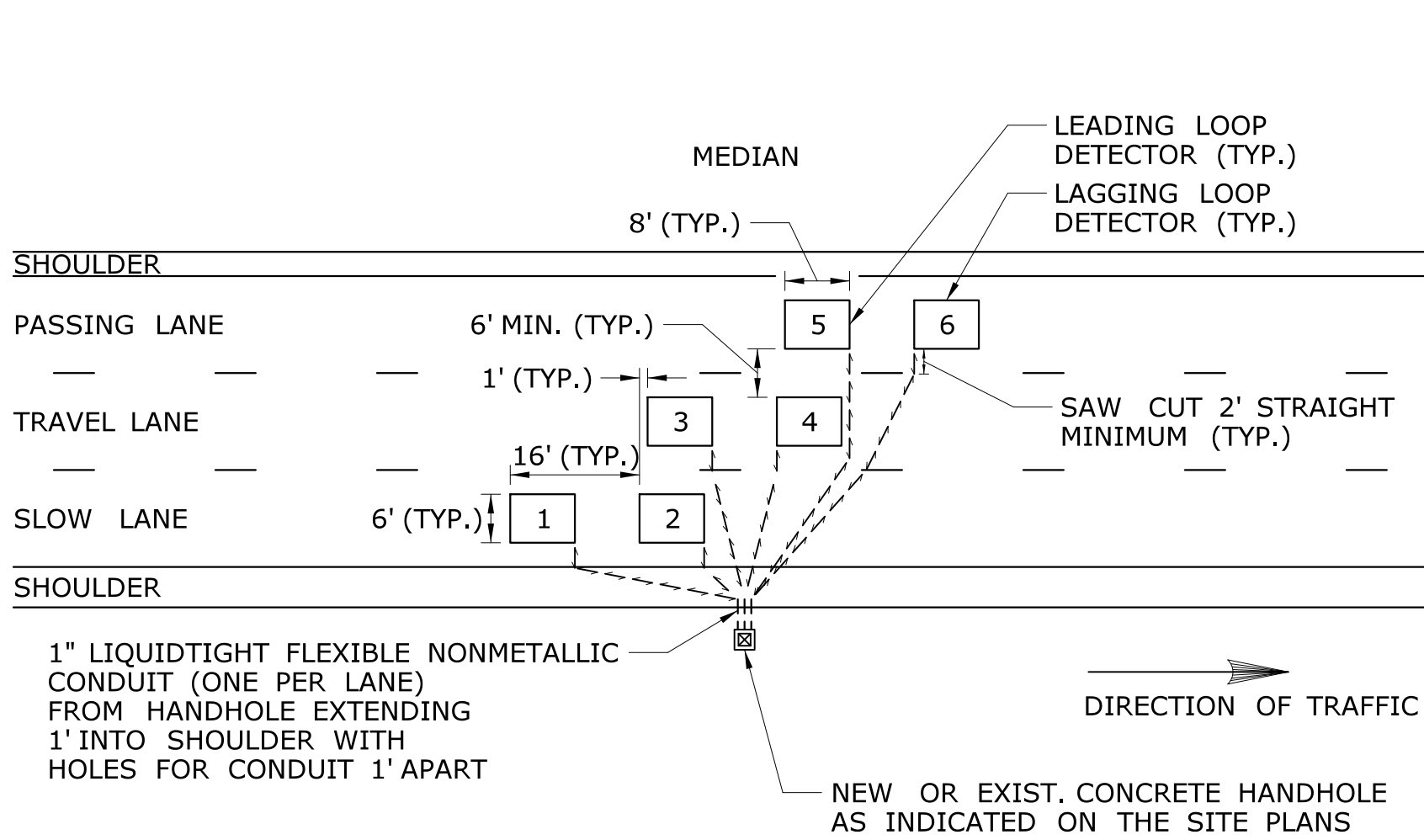
LEGEND	
SYMBOL	DESCRIPTION
	TRAFFIC CONTROLLER CABINET AND FOUNDATION
	EXISTING CONCRETE HANDHOLE
	RIGID METAL CONDUIT/LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT
	SAW CUT
	LOOP DETECTOR
	PIEZO CABLE SENSOR (TYPE 1)



NOTES:

1. THE CONTRACTOR SHALL REPLACE THE LOOP DETECTORS AND PIEZO SENSORS AT EXISTING TRAFFIC MONITORING STATION FAIR-303 IN THE TOWN OF FAIRFIELD, WHICH WILL BE DISTURBED AS A RESULT OF MILLING AND PAVING ON I-95.
2. EXISTING CABINET, HANDHOLES, AND 14/2 CABLES SHALL BE REUSED.
3. EXISTING CONDUIT SHALL BE REUSED, EXCEPT FOR CONDUIT STUBBING INTO ROADWAY. EXISTING CONDUIT STUBBING INTO ROADWAY SHALL BE REMOVED FROM HANDHOLES TO EDGE OF PAVEMENT TO MAKE ROOM FOR THE INSTALLATION OF NEW CONDUIT. NEW 1" LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT SHALL BE INSTALLED FROM HANDHOLES 1' INTO SHOULDER.
4. EXISTING NO. 14 LOOP WIRES SHALL BE REMOVED FROM HANDHOLES.
5. EXISTING PIEZO SENSOR CABLES SHALL BE REMOVED FROM CONDUIT, HANDHOLES, AND CABINET.
6. EXISTING NO. 8 BARE COPPER GROUNDING CONDUCTOR SHALL BE REMOVED FROM HANDHOLES.
7. EXISTING NO. 14 LOOP WIRES SHALL BE DISCONNECTED FROM 14/2 CABLES IN HANDHOLES AND EXISTING PIEZO SENSOR CABLES SHALL BE DISCONNECTED FROM TERMINAL BLOCKS IN CABINET PRIOR TO MILLING OF PAVEMENT.
8. THE CONTRACTOR SHALL INSTALL TWELVE TYPE 1 PIEZO SENSORS ALONG WITH PIEZO CABLE FROM SENSOR TO CABINET.
9. THE CONTRACTOR SHALL INSTALL SIX 6' X 8' LOOP DETECTORS. LOOP DETECTORS SHALL BE INSTALLED IN FINAL PAVEMENT COURSE AND SPLICED TO EXISTING 14/2 CABLES IN EXISTING HANDHOLES.
10. EXISTING HANDHOLES SHALL HAVE RIGID METAL CONDUIT AND HANDHOLE COVERS BONDED WITH A NEW NO. 8 BARE COPPER GROUNDING CONDUCTOR.
11. ALL WIRING WITHIN THE CABINET SHALL BE NEAT, FIRM, LABELED AND CONNECTED TO THE APPROPRIATE TERMINAL BLOCKS.
12. THE JACKET OF EACH PIEZO SENSOR CABLE SHALL BE REMOVED FROM ONLY THE LAST 2" AT TERMINALS TO MINIMIZE ELECTRICAL INTERFERENCE AND CABLE SHALL BE CONNECTED TO THE TERMINALS USING SPADE LUGS.
13. THE CONTRACTOR SHALL CLEARLY MARK EACH LOOP DETECTOR CABLE AND PIEZO SENSOR CABLE TO IDENTIFY THE LOOP DETECTOR AND PIEZO SENSOR TO WHICH IT IS CONNECTED, AS STATED IN THE "TWO PIEZOS (TYPE 1) AND ONE LOOP PER LANE" DETAIL ON DRAWING NO. TMS-04 AND LABELED ON THE PLAN.
14. THE CONTRACTOR SHALL PROPERLY IDENTIFY ALL LOOP DETECTORS AND PIEZO SENSORS AT TERMINALS WITH STRIP TAGS, AS LABELED ON THE PLAN.
15. THE CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG," TELEPHONE: 1-800-922-4455 FOR THE LOCATION OF PUBLIC UNDERGROUND FACILITIES IN ACCORDANCE WITH SECTION 16-345 OF THE REGULATIONS OF THE PUBLIC UTILITIES REGULATORY AUTHORITY. IN AREAS ADJACENT TO UNDERGROUND LIGHTING CIRCUITRY AND INCIDENT MANAGEMENT SYSTEM (IMS), THE CONTRACTOR IS REQUIRED TO HAND EXCAVATE. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING, VERIFYING THE LOCATION OF, AND PROTECTING ALL LIGHTING AND IMS APPURTENANCES ABOVE AND BELOW GROUND. ANY DAMAGE CAUSED TO THE LIGHTING SYSTEM OR IMS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND WILL BE REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE, AS DIRECTED BY THE ENGINEER. MARK-OUT OF THE LIGHTING CIRCUITRY AND IMS WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY.
16. THE CONTRACTOR SHALL NOTIFY THE PROJECT INSPECTOR WHEN ACCESS TO THE CABINET IS REQUIRED. THE PROJECT INSPECTOR SHALL CONTACT MR. JOSEPH BRUSZNICKI OF CONNDOT'S OFFICE OF SYSTEMS MODELING AND FORECASTING'S TRAFFIC MONITORING SECTION AT TELEPHONE NO. 860-594-2942 FOR THE CONTRACTOR TO GAIN ACCESS TO THE CABINET. THE PROJECT INSPECTOR SHALL INFORM MR. BRUSZNICKI OF THE COMMENCEMENT OF LOOP DETECTOR AND PIEZO SENSOR INSTALLATION 7 DAYS PRIOR TO THE START OF WORK IN ORDER TO PROVIDE AN OPPORTUNITY FOR A REPRESENTATIVE OF THE TRAFFIC MONITORING SECTION TO BE PRESENT DURING THE INSTALLATION. ALSO, THE PROJECT INSPECTOR SHALL PROVIDE MR. BRUSZNICKI 7 DAYS NOTICE PRIOR TO DISTURBING THE SITE.
17. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER WHEN ALL TRAFFIC MONITORING STATION WORK IS COMPLETED. THE PROJECT ENGINEER SHALL CONTACT MR. ZOLTAN RIGO OF CONNDOT'S FACILITIES DESIGN ELECTRICAL SECTION AT TELEPHONE NO. 860-594-2780 TO SCHEDULE A SEMI-FINAL INSPECTION.

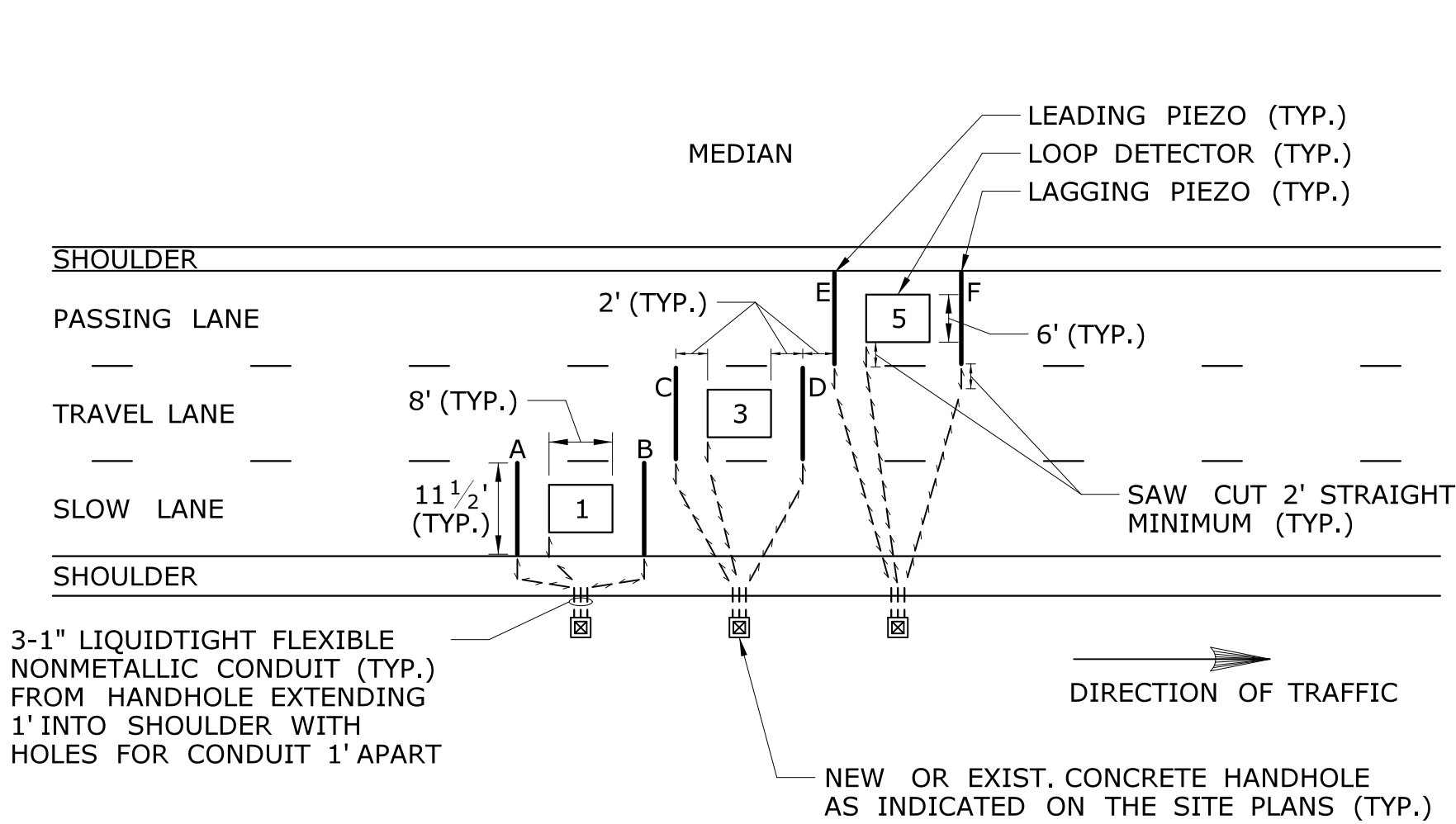
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						CHECKED BY: EWM			NOT TO SCALE						DRAWING TITLE: SITE PLAN - TMS FAIR-303		DRAWING NO. TMS-03	
																	SHEET NO. 07.03	
REV.	DATE	REVISION DESCRIPTION		SHEET NO.	Plotted Date: 12/18/2015			Filename: ...\\FD_MSH_TMS_0050_0219_TMS-03.dgn										



1. LOOP DETECTORS TO BE 6' X 8', 4 TURNS EACH, UNLESS NOTED.
2. LOOP DETECTORS TO BE INSTALLED IN THE CENTER OF EACH LANE, UNLESS NOTED.
3. LOOP DETECTORS TO BE FIELD LOCATED SO THAT NO SAW CUTS WILL BE MADE THROUGH CONCRETE EXPANSION JOINTS OR POOR PAVEMENT.
4. ALL SAW CUT HOME RUNS SHALL BE A MINIMUM 1' APART.
5. LOOP CABLES SHALL HAVE 2' OF SLACK IN HANDHOLES.
6. ALL LEAD-IN WIRE PAIRS SHALL BE TWISTED TOGETHER FIVE (5) TURNS PER FOOT WHEN IN CONDUIT.
7. ALL LOOP DETECTOR LEADS SHALL BE COLOR CODED WITH TAPE IN CABINET, HANDHOLES, AND JUNCTION BOXES AS FOLLOWS:
LEADING LOOPS = 1 BAND OF TAPE
LAGGING LOOPS = 2 BANDS OF TAPE

LOOP NO.	TAPE COLOR
1, 2	RED
3, 4	BLUE
5, 6	ORANGE
7, 8	YELLOW
9, 10	BROWN
11, 12	PURPLE
13, 14	GRAY
15, 16	PINK

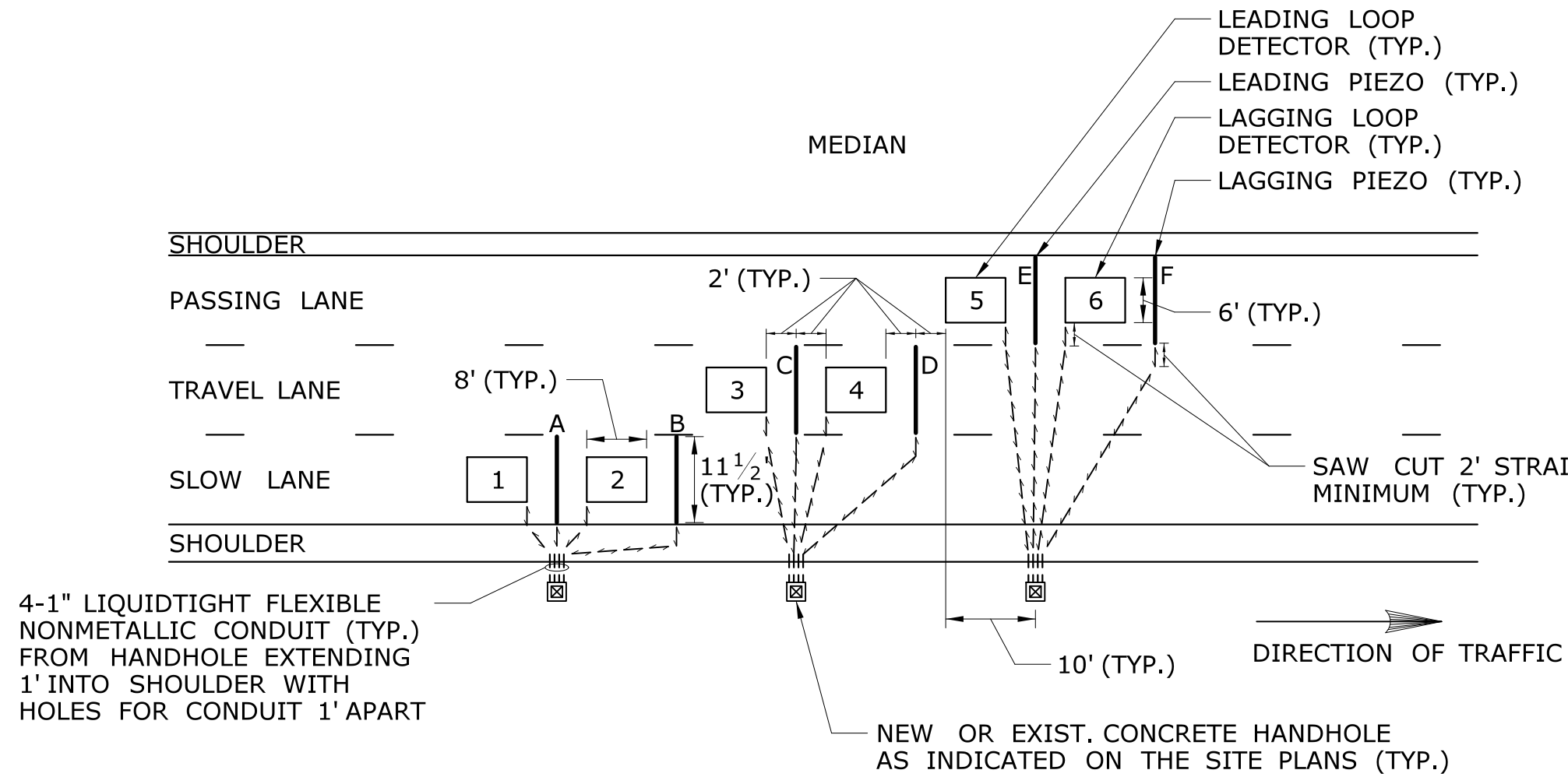
TWO LOOPS PER LANE



1. LOOP DETECTORS TO BE 6' X 8', 4 TURNS EACH, UNLESS NOTED.
2. LOOP DETECTORS AND PIEZO SENSORS TO BE INSTALLED IN THE CENTER OF EACH LANE, UNLESS NOTED.
3. LOOP DETECTORS AND PIEZO SENSORS TO BE FIELD LOCATED SO THAT NO SAW CUTS WILL BE MADE THROUGH CONCRETE EXPANSION JOINTS OR POOR PAVEMENT.
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6. ALL LEAD-IN WIRE PAIRS SHALL BE TWISTED TOGETHER FIVE (5) TURNS PER FOOT WHEN IN CONDUIT.
7. ALL LOOP DETECTOR & PIEZO SENSOR LEADS SHALL BE COLOR CODED WITH TAPE IN CABINET, HANDHOLES, AND JUNCTION BOXES AS FOLLOWS:
LEADING LOOPS & PIEZOS = 1 BAND OF TAPE
LAGGING LOOPS & PIEZOS = 2 BANDS OF TAPE

LOOP NO.	PIEZO	TAPE COLOR
1, 2	A, B	RED
3, 4	C, D	BLUE
5, 6	E, F	ORANGE
7, 8	G, H	YELLOW
9, 10	I, J	BROWN
11, 12	K, L	PURPLE
13, 14	M, N	GRAY
15, 16	O, P	PINK


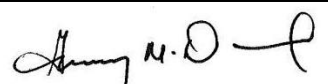
TWO PIEZOS (TYPE 1) AND ONE LOOP PER LANE

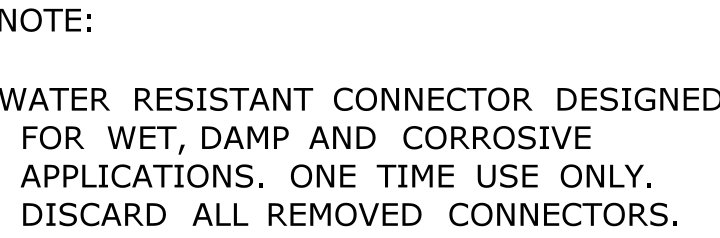


1. LOOP DETECTORS TO BE 6' X 8', 4 TURNS EACH, UNLESS NOTED.
2. LOOP DETECTORS AND PIEZO SENSORS TO BE INSTALLED IN THE CENTER OF EACH LANE, UNLESS NOTED.
3. LOOP DETECTORS AND PIEZO SENSORS TO BE FIELD LOCATED SO THAT NO SAW CUTS WILL BE MADE THROUGH CONCRETE EXPANSION JOINTS OR POOR PAVEMENT.
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6. ALL LEAD-IN WIRE PAIRS SHALL BE TWISTED TOGETHER FIVE (5) TURNS PER FOOT WHEN IN CONDUIT.
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LEADING LOOPS & PIEZOS = 1 BAND OF TAPE
LAGGING LOOPS & PIEZOS = 2 BANDS OF TAPE

LOOP NO.	PIEZO	TAPE COLOR
1, 2	A, B	RED
3, 4	C, D	BLUE
5, 6	E, F	ORANGE
7, 8	G, H	YELLOW
9, 10	I, J	BROWN
11, 12	K, L	PURPLE
13, 14	M, N	GRAY
15, 16	O, P	PINK

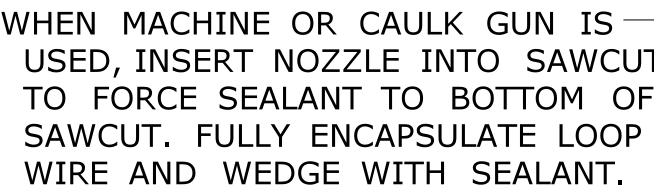
TWO PIEZOS (TYPE 1) AND TWO LOOPS PER LANE

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				CHECKED BY: EWM	DRAWING NO. TMS-04					
				NOT TO SCALE	SHEET NO. 07.04					
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DETAIL "E"



LOOP DETECTOR SPLICES

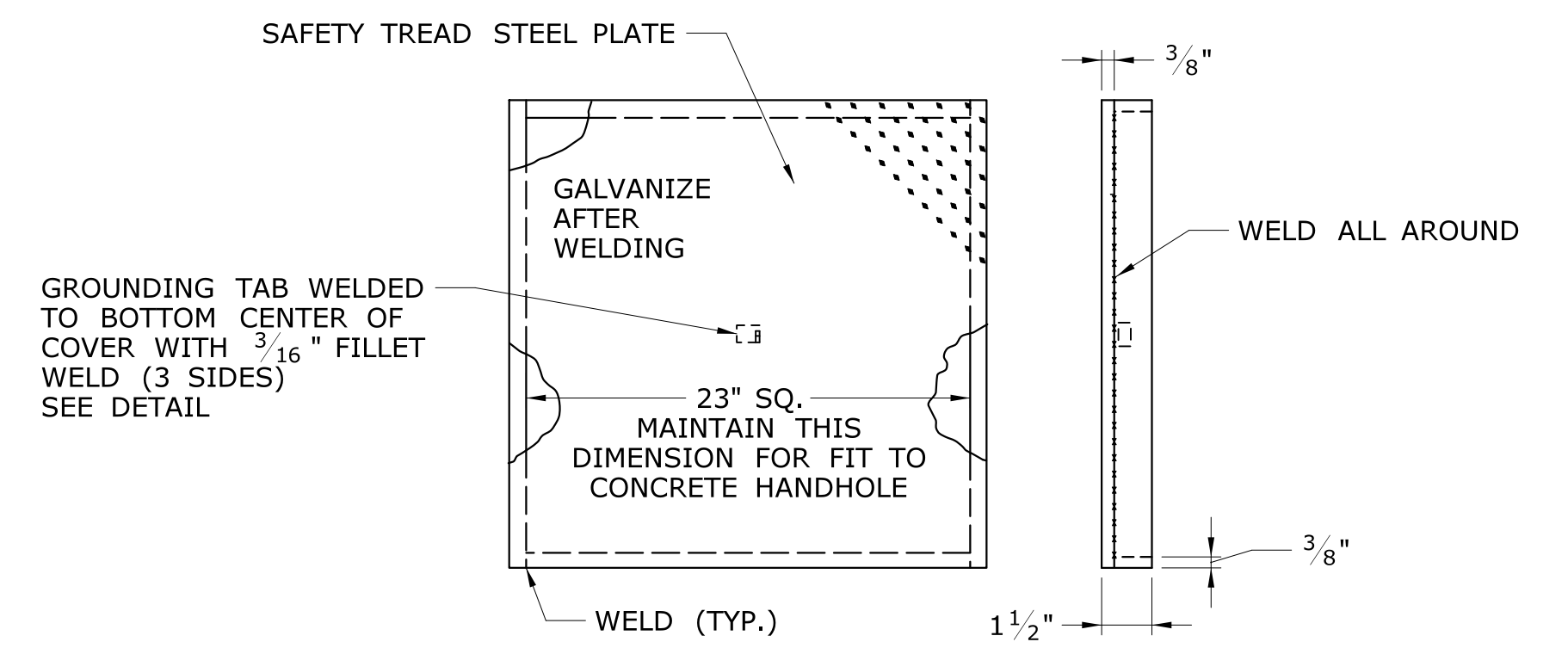


NOT ACCEPTABLE SAW CUT

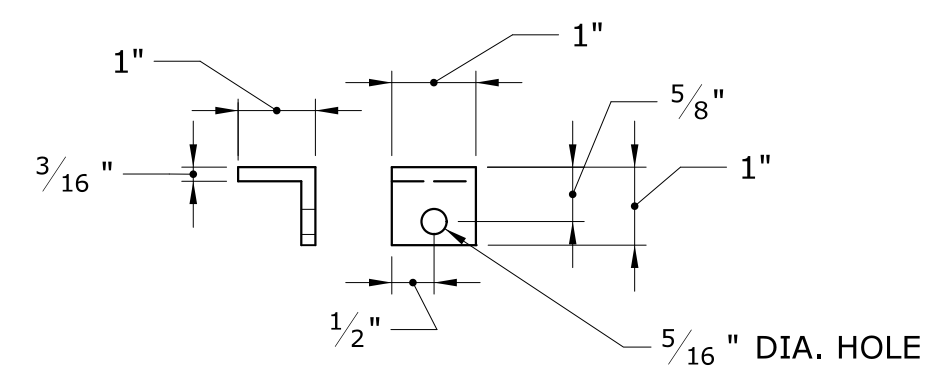
DO NOT OVERLAP MORE THAN TWO SAWCUTS.

NOTES:
PERFORM 600 VOLT MEGGER TEST PRIOR TO SEALING SAWCUT. RESISTANCE TO GROUND NOT LESS THAN 100 MEG. OHMS.
ONLY USE POLYESTER COMPOUND AS SEALANT, UNLESS OTHER TYPE IS APPROVED BY ENGINEER.
WET SAW CUT ONLY; DRY SAW CUT NOT PERMITTED.
RECOMMENDED SAW BLADE: 14" x 3/8" PRODUCES 7/16" SLOT.
SAW CUT LOOP & HOME RUN DEPTH TO ENSURE MIN. 1" SEALANT COVERAGE.

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REV.	DATE	REVISION DESCRIPTION		SHEET NO.	Plotted Date: 12/18/2015										



CONCRETE HANDHOLE - TYPE III



STEEL GROUNDING TAB

NOTE:

1. ATTACH 6' LENGTH OF NO. 8 GROUND WIRE TO GROUNDING TAB WITH ONE HOLE LUG, $\frac{1}{4}$ "-20 x $\frac{3}{4}$ " LG. SST HEX HEAD BOLT, AND SST FLAT WASHER. ATTACH FREE END OF GROUND WIRE TO NO. 8 BARE GROUND WIRE IN HANDHOLE.
2. GROUT AROUND ALL CONDUITS.

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